CoolPoly® D3612

Polyamide 46

Cool Polymers, Inc.

Message:

CoolPoly D series of thermally conductive plastics transfers heat, a characteristic previously unavailable in injection molding grade polymers. CoolPoly is lightweight, netshape moldable and allows design freedom in applications previously restricted to metals. The D series is electrically non-conductive and can be used for its dielectric properties.

General Information			
Features	Electrically Insulating Good Moldability Thermally Conductive		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.60	g/cm³	ISO 1183
Molding Shrinkage			ASTM D551
Flow	0.30	%	
Across Flow	0.40	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	12500	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	0.60	%	ISO 527-2
Flexural Modulus	11500	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Specific Heat	1290	J/kg/°C	ASTM E1461
Thermal Conductivity	6.0	W/m/K	ASTM E1461
Thermal Diffusivity	0.0280	cm²/s	ASTM E1461
Flammability	**Nominal Value**		**Test Method**
Flame Rating (2.00 mm)	V-0		UL 94

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China